

<u>Title</u>	<u>Name</u>	<u>Approval Date</u>
SST Beamline Scientist	Cherno Jaye	02/05/2018
NPB Project Manager	Howard Robinson	02/05/2018
ES&H Operations Manager	Lori Stiegler	02/05/2018
SST Beamline Scientist	Conan Weiland	02/05/2018
Quality Assurance Engineer	Joseph Zipper	02/05/2018

Serial No	Part No	Part Rev	ECN	Rev	ECN	Rev
Deviation & Waiver: _____						

OP	Description	Name/Life #	Date	DR
10	This traveler shall be completed by the Beamline Group Leader, to verify the beamline is accepted and ready for commissioning	Dan Fischer F5617	2/5/2018	

Discrepancy Reports (DR's) occurring during the completion of this traveler shall include a justification for proceeding with commissioning, be approved by the Photon Division Director, and summarized in operation #140 "COMMISSIONING READINESS SUMMARY"

20 BEAMLINE COMPONENTS/EQUIPMENT

Dan Fischer F518	2/15/2018	
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A. Verify acceptable completion of the following travelers:

- ☒ BL-SST-001, SST Photon Delivery System Acceptance Testing
- ☒ BL-SST-003, Lead Brem Shielding 1
- ☒ BL-SST-003, Lead Brem Shielding 2
- ☒ BL-SST-003, Lead Brem Shielding 3
- ☒ BL-SST-004, SST Vacuum Switches
- ☒ BL-SHLDP-001, Shielded Beampipe Acceptance Testing L Branch
- ☒ BL-SHLDP-001, Shielded Beampipe Acceptance Testing M Branch
- ☒ BL-PPS-001 PPS Aperture Installation
- ☐ BL-PSH-001, Photon Shutter 1
- ☒ BL-PSH-001, Photon Shutter 2
- ☒ BL-PSH-001, Photon Shutter 3
- ☒ BL-PSH-001, Photon Shutter 4
- ☒ BL-PSH-001, Photon Shutter 5
- ☒ BL-PSH-001, Photon Shutter 6
- ☒ BL-PSH-001, Photon Shutter 7
- ☒ BL-PSH-001, Photon Shutter 8
- ☒ BL-PSH-001, Photon Shutter 9
- ☒ Inspection Test Report - Bellows Shields

B. Verify all DR's/NC's associated with above travelers are closed



OP	Description	Name/Life #	Date	DR
25	END STATION COMPONENTS	Dan Fischer F5613	2/14/2018	
	A. Verify acceptable completion of the following travelers:			
	<input checked="" type="checkbox"/> BL-ES-001 End Station (HXPES)			
	<input checked="" type="checkbox"/> BL-ES-001 End Station (NEXAFS/XPS)			
	B. Verify all DR's/NC's associated with above travelers are closed			
30	RADIOLOGICAL INTERLOCK CERTIFICATION	Dan Fischer F5613	2/6/2018	
	Verify acceptable completion of the Radiological Interlock Certification Checklist # NSLSII-7ID-CHK-001			
40	EQUIPMENT PROTECTION SYSTEM	Dan Fischer F5613	2/5/2018	
	A. Verify acceptable completion of traveler:			
	<input checked="" type="checkbox"/> BL-EPS-002, SST Equipment Protection System			
	B. Verify all DR's/NC's associated with above traveler are closed			
50	STANDARD VACUUM EQUIPMENT	Dan Fischer F5613	2/5/2018	
	A. Verify acceptable completion of traveler BL-VA-002			
	B. Verify all DR's/NC's associated with above traveler are closed			
60	HUTCHES	Dan Fischer F5613	2/5/2018	
	A. Verify acceptable completion of traveler HU-001 (Hutch A)			
	B. Verify all DR's/NC's associated with above traveler are closed			
70	MECHANICAL UTILITIES	Dan Fischer F5613	2/5/2018	
	A. Verify acceptable completion of traveler BL-UT-001			
	B. Verify all DR's/NC's associated with above traveler are closed			
80	ELECTRICAL UTILITIES	Dan Fischer F5613	2/5/2018	
	A. Verify acceptable completion of traveler BL-UT-002			
	B. Verify all DR's/NC's associated with above traveler are closed			



OP	Description	Name/Life #	Date	DR
90	DI WATER BALANCING	Dan Fischer F5013	2/5/2018	
	A. Verify acceptable completion of traveler BL-UT-005			
	B. Verify all DR's/NC's associated with above traveler are closed			
100	PPS SWITCH INSPECTION	Dan Fischer F5013	2/5/2018	
	A. Verify completion of Inspection Test Report			
	B. Verify all DR's/NC's associated with above traveler are closed			
110	CRYOGENICS AND OXYGEN DEFICIENCY HAZARD	Dan Fischer F5013	2/5/2018	
	A. Verify acceptable completion of the following travelers			
	<input checked="" type="checkbox"/> BL-UT-004 Beamline Liquid Nitrogen Acceptance Testing			
	<input type="checkbox"/> BL-MON-007 Cryo-Cooler Installation			
	B. Verify all DR's/NC's associated with above travelers are closed			
120	NETWORK UTILITIES	Dan Fischer F5013	2/5/2018	
	Verify the following:			
	- Fiber optic connection to the core is terminated and tested			
	- Beamline switches are installed			
	- Network is connected to NSLSII controls network			



OP	Description	Name/Life #	Date	DR
130	GROUNDING - This step shall be performed by Electrical Engineering Group Personnel	ALBYER/20202	2/6/18	

Verify all equipment is bonded to a system ground by a low impedance connection in accordance with NEC 250.4(A)(3). This applies to every piece of equipment which has electrical connections, as well as any equipment where wiring is in contact with or in proximity to.

Specifically verify the following:

- ☒ All bonding conductors are bare copper or green insulated copper wire.
- ☒ All bonding connections require a tool to remove.
- ☒ All bonding connections are visible from the main personnel aisles. There are no hidden connections.
- ☒ Solder is not used as a method of connection for any bonding conductor.
- ☒ The minimum wire size for bonding is 10 AWG. For DC circuits, NEC table 250.122 has been applied using the DC current maximum in place of the current rating.



SST BEAMLINE COMMISSIONING READINESS

Doc No. BL-SST-002 Rev: B

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Rev Date: 02/05/2018

Author: Conan Weiland

Approved: 02/05/2018

OP	Description	Name/Life #	Date	DR
140	COMMISSIONING READINESS SUMMARY	Dan Fische f5617	2/15/2018	

Check one:

☒ This beamline is accepted and ready to start commissioning - all steps in this travelers are complete

☐ This beamline is conditionally accepted and ready to start commissioning. The table below is a summary of the open (approved) DR's and includes, its required action, due date, and justification why commissioning can proceed.

DR	REQUIRED ACTION	DUE DATE	JUSTIFICATION

150 Verify all Discrepancy Reports for this traveler are closed

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160 Forward this completed traveler to Quality Assurance

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OP	Description	Name/Life #	Date	DR
170	REVISION HISTORY (This step is informational and does not require signoff)			

Rev - Description - Date

B First Release

